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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/644,097	10/644,097 08/20/2003		Kirill Sokolov	1293.1808	1293.1808 4964		
21171	7590	04/06/2005		EXAM	EXAMINER		
STAAS & SUITE 700		LLP	BLACKMAN, RO	BLACKMAN, ROCHELLE ANN J			
		ENUE, N.W.	ART UNIT	PAPER NUMBER			
WASHING	TON, DC	20005	2851				

DATE MAILED: 04/06/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/644,097	SOKOLOV, KIRILL	
Office Action Summary	Examiner	Art Unit	
	Rochelle Blackman	2851	
The MAILING DATE of this communication app			
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	i6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	ely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on <u>06 Ja</u>			
<u> </u>	action is non-final.		
 Since this application is in condition for allowan closed in accordance with the practice under E 			
Disposition of Claims			
4) ☐ Claim(s) 1-44 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) 1-41 is/are allowed. 6) ☐ Claim(s) 42-44 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or			
Application Papers			
9)☐ The specification is objected to by the Examiner 10)☒ The drawing(s) filed on 20 August 2003 is/are: Applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction 11)☐ The oath or declaration is objected to by the Examiner	a)⊠ accepted or b)⊡ objected t drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage	
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) Interview Summary		
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	atent Application (PTO-152)	

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DETAILED ACTION

Response to Arguments

Applicant's arguments with respect to claims 1-44 have been considered but are most in view of the new ground(s) of rejection.

Claim Objections

Claim 43 is objected to because of the following informalities: the claim recites the limitation "the light source" in line 3 of the claim. There is insufficient antecedent basis for this limitation in the claim. Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 42-44 are rejected under 35 U.S.C. 102(b) as being anticipated by Yano (U.S. Patent Application Publication No. 2001/0021004).

Regarding claims 42 and 43, Yano discloses an apparatus (see FIGS. 1-43) comprising: an illumination system (see 2 of FIGS. 3-15) to emit white light having light of a predetermined wavelength band; a plurality of prisms (see 4 of FIGS. 3-15), each coated with a cholesteric liquid crystal film, to convert the light of the predetermined

wavelength band to a first polarization component (see description of element 4 on pgs. 3-4, paragraph [0068]); and a color recycling system (see 7a-b, 8, 9, 10, 14, 15, 16, and 20 in FIGS. 3-15, different combinations of some these elements are used in the different embodiments of FIGS. 3-15), to separate the light of the predetermined wavelength band into a first color light and a second color light (for example, blue and green), transmit and reflect the first and second color lights, to convert a third color light (for example, red) to have a second polarization component, and transmit the third color light so that a fourth color light, that is a mixture of the first and third color lights, and a fifth color light, that is a mixture of the second and third color lights, progress in different optical paths (for example, element 8, which is a color switching element or device, separates prime color components into magenta and yellow – see pg. 8, paragraphs [0120]-[[0123]); further comprising a screen (see *screen* on pg. 5, paragraph [0080]) to receive the first through third color lights projected thereon and display an image without losing the white light emitted from the light source.

Regarding claim 44, Yano discloses an apparatus comprising: a screen (see screen on pg. 5, paragraph [0080]) to receive yellow and magenta lights from a plurality of reflective panels and to combine the yellow and magenta lights into a unified image (This limitation is considered to be an intended use of the screen. Since the screen is capable of "receiving yellow and magenta lights from a plurality of reflective panels and to combine the yellow and magenta light into a unified image", it meets the limitation as claimed.), the reflective panels forming a shadow zone formed therebetween in which

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the yellow and magenta lights are not reflected (the "reflective panels" are not positively recited as part of the apparatus and therefore do not further limit the apparatus).

Allowable Subject Matter

- 1. Claims 1-41 are allowed.
- 2. The following is a statement of reasons for the indication of allowable subject matter:

Claims 1-41 have been found to be allowable because the prior art of record either alone or in combination neither discloses nor makes obvious the projection apparatus comprising the feature of the third color light in the fourth and fifth color light being directed to the third reflective panel in an optical path conversion system that splits the optical paths of the fourth and fifth color lights, in combination with the fourth color light output from the optical path conversion system and the fifth color light output from the optical path conversion system being projected on the screen, further in combination with the other particular combination of features recited in claim 1.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rochelle Blackman whose telephone number is (571) 272-2113. The examiner can normally be reached on M-F 8:00-4:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Judy Nguyen can be reached on (571) 272-2258. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RB

JUDY NGUYEN

●8年VISORY PATENT EXAMINER